

**ABSTRACT**

The present invention relates to a method pertaining to the combustion of a fuel with an oxidant in a heating furnace, wherein the fuel and the oxidant are delivered to a burner head.

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The invention is characterized in that in a first method step fuel and oxidant are caused to be emitted from the burner head (1; 10) in the close proximity of each other so that combustion will essentially take place close to and at a small distance outward of the burner head until there is reached in the furnace space a temperature that exceeds the spontaneous combustion temperature of the fuel; and in that in a second method step the fuel and the oxidant are caused to be emitted instead from the burner head (1; 10) at a mutual distance apart so that combustion will essentially take place at a distance from the burner head corresponding to at least the diameter of the burner head and outwards of the burner.

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(Fig. 1 for publication)